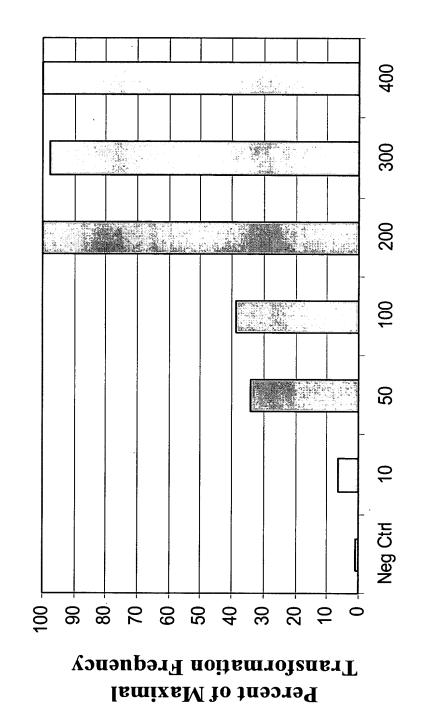
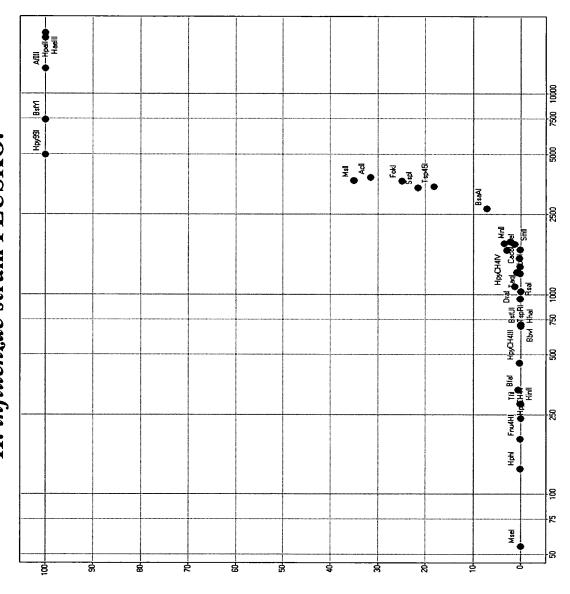
Distance of H. influenzae Ciprofloxacin Resistance gyrA Mutation Figure 1. Relationship between Transformation Frequency and from End of Fragment



Distance from End (bp)

Length of Restriction Fragments using Abbott A-583 Resistant fadL Figure 2. Relationship between Transformation Frequency and H. influenzae strain FLUSKO.



Transformation Frequency

Percent of Maximum

Fragment Length (bp)

Figure 3. B. subtilis rpoB Rifampacin Resistance Mutation

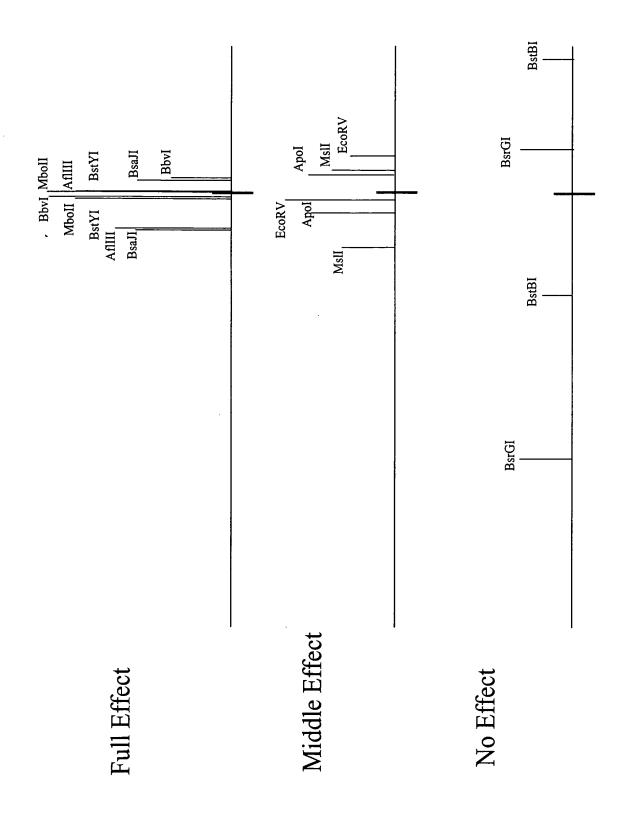
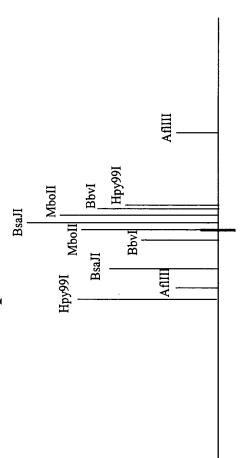
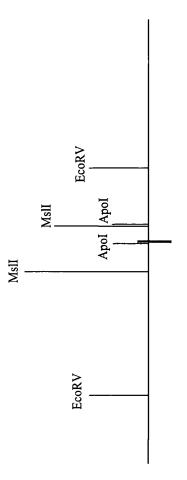


Figure 4. B. subtilis Random Site Location Plot with Rifampacin Resistance Data



Full Effect

Middle Effect



No Effect

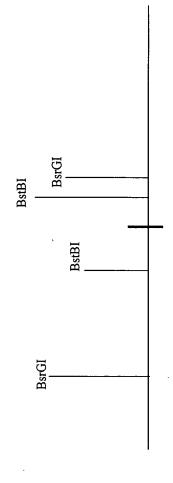


Figure 5. B. subtilis Rifampacin Resistance signature at rpoB and random loci

Random Locus II

Rando	Random Locus I
AfIIII	
Apol	
BbvI	
BsaJI	
BsrGI	
BstBI	1 1 1 1
EcoRV	
Hpy99I	
MboII	
MsII	1 1 1

		1 1 1 1 1 1 1 1 1 1
AfIIII Apol BbvI	BsaJI BsrGI BstBI	EcoRV Hpy991 Mboll Msll

Full Effect	fiddle Effect	No Effect

Figure 6. H. influenzae gyr.4 Ciprofloxacin Resistance Mutation

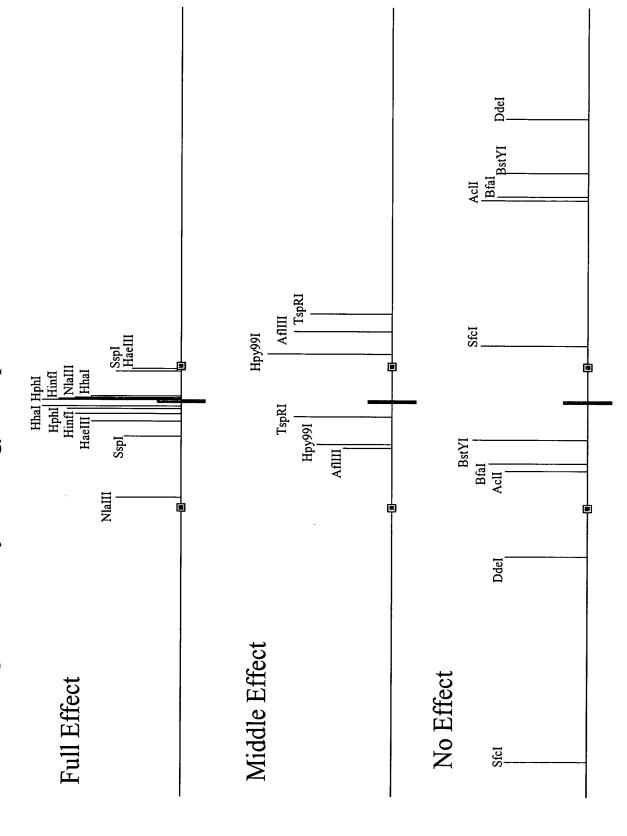


Figure 7. H. influenzae Random Location Plot with Ciprofloxacin Resistance Data

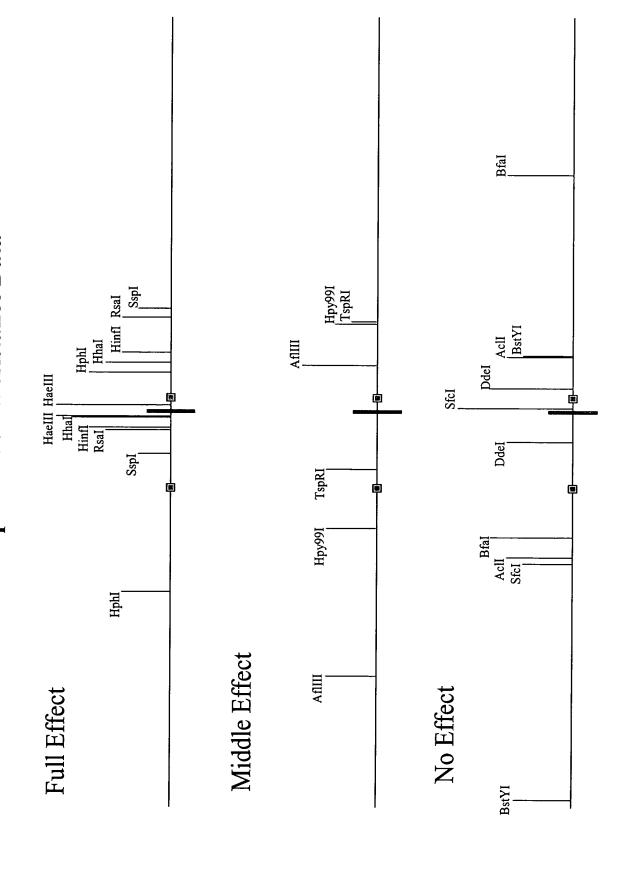


Figure 8. H. influenzae Ciprofloxacin Transformation signature at gyrA and random loci

Random Locus II								 			1 1	 			
Randon	AcII	AfIII	BfaI	BstYI	Ddel	HaeIII	Hhal	Hinfl	HphI	Hpy99I	NlaIII	SfcI	SspI	TspRI	
Random Locus I															
Randon	AcII	AfIII	BfaI	BstYI	DdeI	HaeIII	Hhal	Hinfl	HphI	Hpy99I	NlaIII	SfcI	SspI	TspRI	
Locus		 								 				 	
gyrA Lo	AcII	AfIIII	BfaI	BstYI	Ddel	HaeIII	Hhal	Hinfl	HphI	Hpy99I	NlaIII	SfcI	SspI	TspRI	

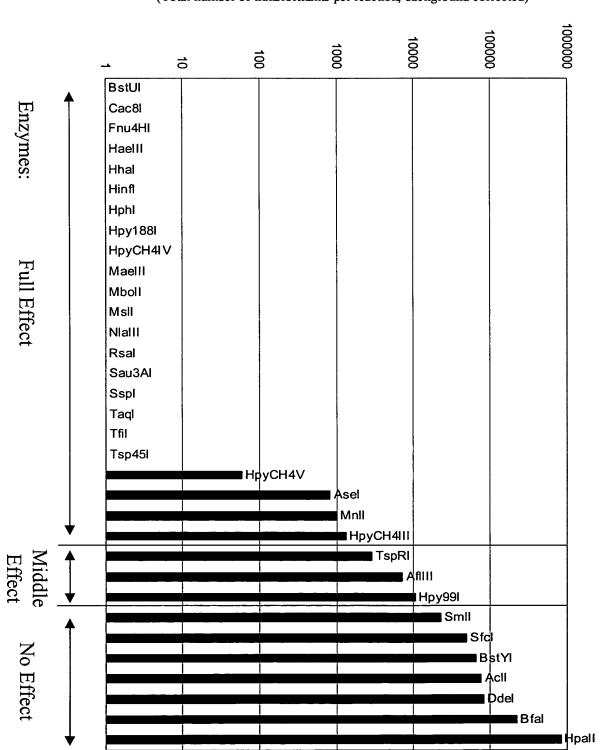
Full Effect ————

Middle Effect — — — — —

Figure 9. Ciprofloxacin Resistance, gyrA

Transformation Frequency

(Total number of transformants per reaction, background corrected)



Transformation Frequency

(Total number of transformants per reaction, background corrected)

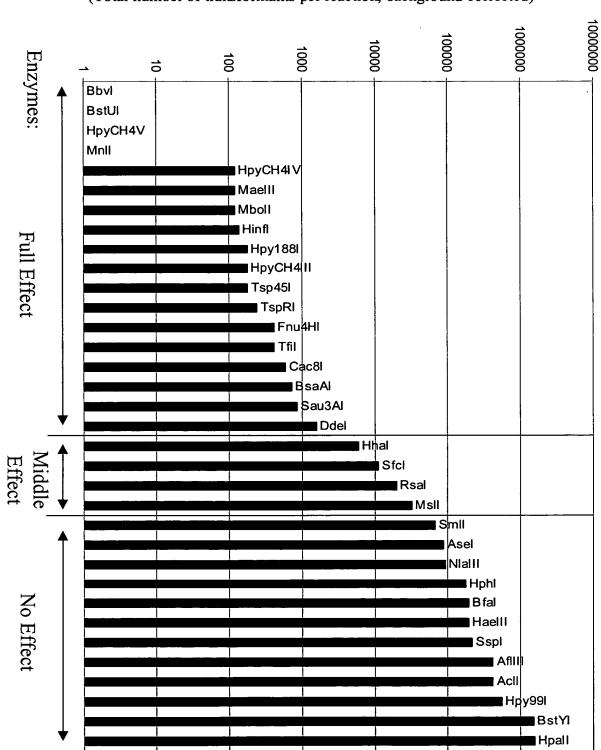


Figure 10. Novobiocin Resistance, gyrB

Transformation Frequency

(Total number of transformants per reaction, background corrected)

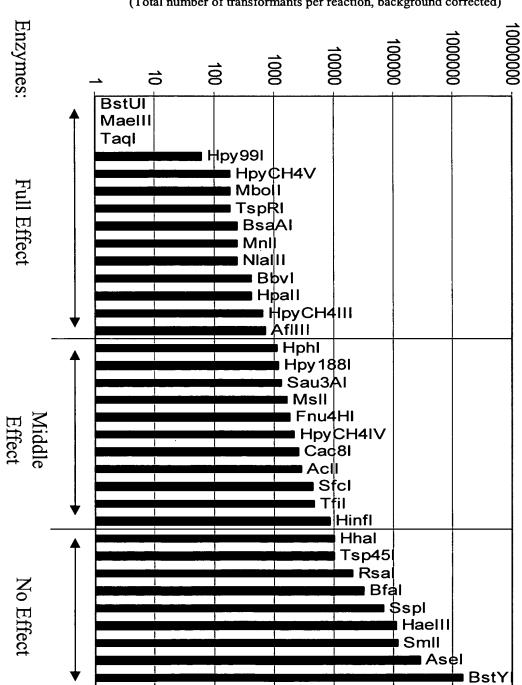
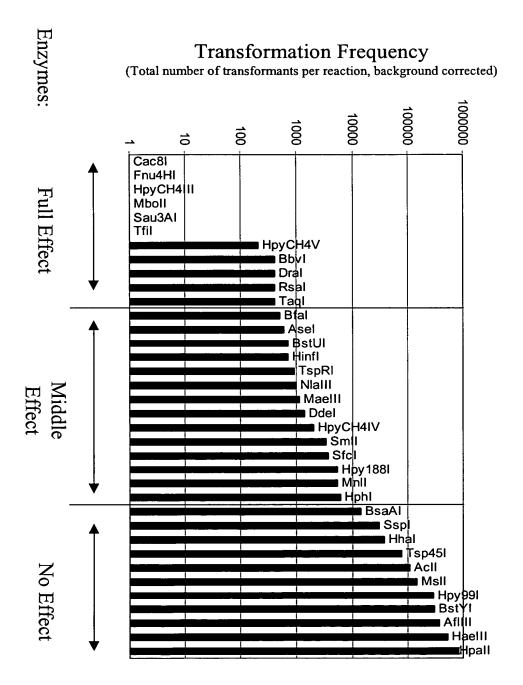


Figure 11. Spectinomycin Resistance, rpS5

Figure 12. A-583 Resistance, fadL



Transformation Frequency

(Total number of transformants per reaction, background corrected)

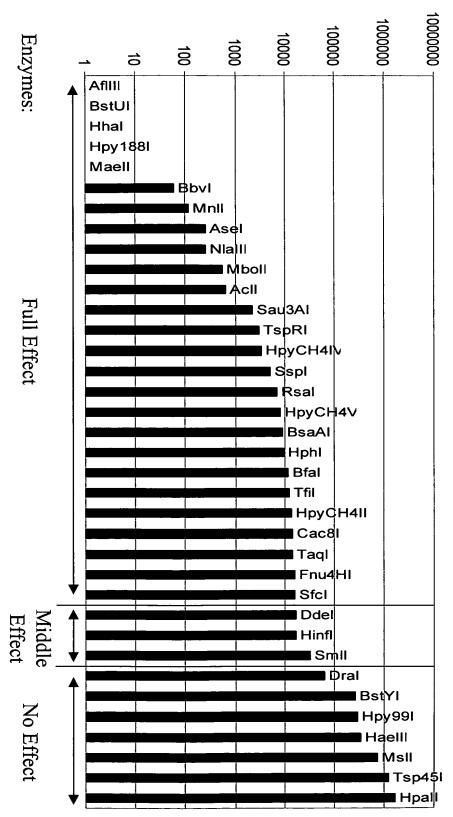


Figure 13. A-568 Resistance, acrB

Figure 14. Composite Bar Code Representation of Restriction Enzyme Digest Transformation Frequency Signatures for H. influenzae Mutants

Enzyme gyrA, Cipro gyrB, Novo rpS5, Spec fadL, 583 acrB, 568

			1		لــا			_																									
Acil	Afill	Asel	Bbyl	Bfal	BsaAl	BstUl	BstYI	CacBl	Ddel	Fnu4HI	Haell	Hpal	Hin	Hpail	Hohl	Hpy1881	Hpy991	HpyCH4III	HpyCH4IV	HpyCH4V	Maell	Mbotl	Muli	MsII	Nalli	Rsal	Sau3Al	Stel	Smll	Sspl	Taql	Ę	Tsp45I